

12. (Amended) A method according to paragraph 1, wherein the population is a population of polynucleotides and the sub-populations are sequence-specific sub-populations.
14. (Amended) A method according to paragraph 12, wherein the population is a population of mRNAs.
15. (Amended) A method according to paragraph 12, wherein the population is a representative of mRNAs.
16. (Amended) A method according to paragraph 12, wherein the population is a population of cDNAs.
17. (Amended) A method according to paragraph 1, wherein the indexing reagents comprise sequence-specific indexing probes.
21. (Amended) A method according to 17, wherein the sequence-specific probe is n bases long, each different sequence possible for a sequence n bases long is specific for a sub-population to be determined, and indexing reactions between the population and indexing reagents that comprise a substantial fraction of all the possible sequences n bases long are determined.
25. (Amended) A method according to paragraph 1, wherein the indexing reagents comprise amplification primers.
26. (Amended) A method according to paragraph 1, wherein the probes are stand-d is placement indexing adaptors.
33. (Amended) A device according to 29, wherein the indexing reagents comprise sequence-specific indexing probes.

37. (Amended) A device according to paragraph 29, wherein the sequence-specific probe is n bases long, each different sequence possible for a sequence n bases long is specific for a sub-population to be determined, and the plurality of indexing reagents comprise indexing reagents with a substantial fraction of all the possible sequences n bases long.